

What is Claimed is:

[Claim 1] An Air clean apparatus comprising an air intake intended to be located at a lower position of a corner of a room and an air outlet intended to be located at an upper position of the corner of the room, and at least a filter and a blower both inside the Air clean apparatus, characterized in that, when the Air clean apparatus is installed, a given quantity of circulating blowing air, which is decided according to the height from the floor underneath the air intake and the underside open area determined on the basis of particles of the maximum size to be eliminated at the air intake.

[Claim 2] An Air clean apparatus comprising an air intake and an air outlet provided in the vicinities of the lower portion and the upper portion of the Air clean apparatus, respectively, and at least a filter and a blower inside the Air clean apparatus, characterized in that, when the Air clean apparatus is vertically installed in a room, interior air is sucked by the blower through the air intake and then cleaned up inside the Air clean apparatus, the cleaned air is then blown out through the air outlet to circulate in the room,

the Air clean apparatus as a whole is formed in a vertically-elongated shape, whose lower portion is located near a floor surface and the upper portion thereof has a height enough to extend up to the vicinity of a ceiling, and

inside the Air clean apparatus, an anterior filter is provided in the vicinity of the air intake, and a photocatalytic filter having an elongated shape extending in a direction along the longitudinal axis of the Air clean apparatus main body, the said photocatalytic filter is adapted to remove and decompose contaminants in the sucked air, is arranged between the anterior filter and the blower.

[Claim 3] An Air clean apparatus according to Claim 1, wherein a cross-section in side view of the Air clean apparatus as a whole has any shape of substantially fan-shaped, pentangular and triangular.

[Claim 4] An Air clean apparatus according to Claim 1 or Claim 2, wherein the both sides of the Air clean apparatus are

configured to have a width of at least 180 mm, and a height of 2000 mm or less, respectively.

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